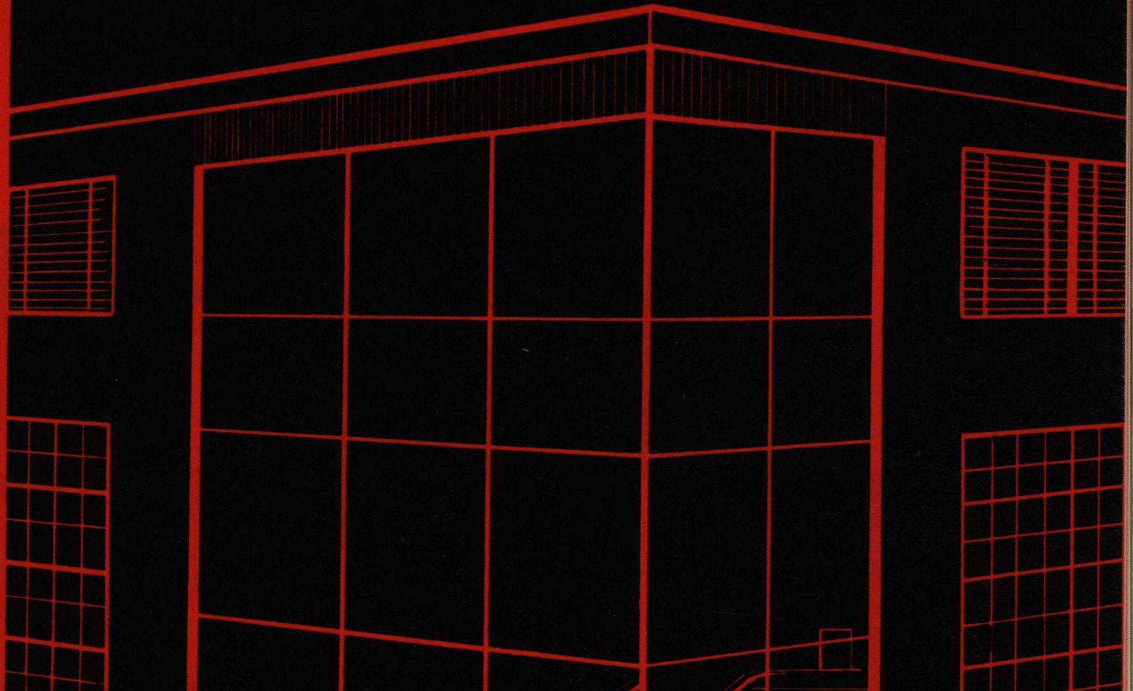
HOLLOW METAL®



HOLLOW METAL DOORS

SOUND CONDITIONED DOORS

STEEL DOOR FRAMES AND TRIM

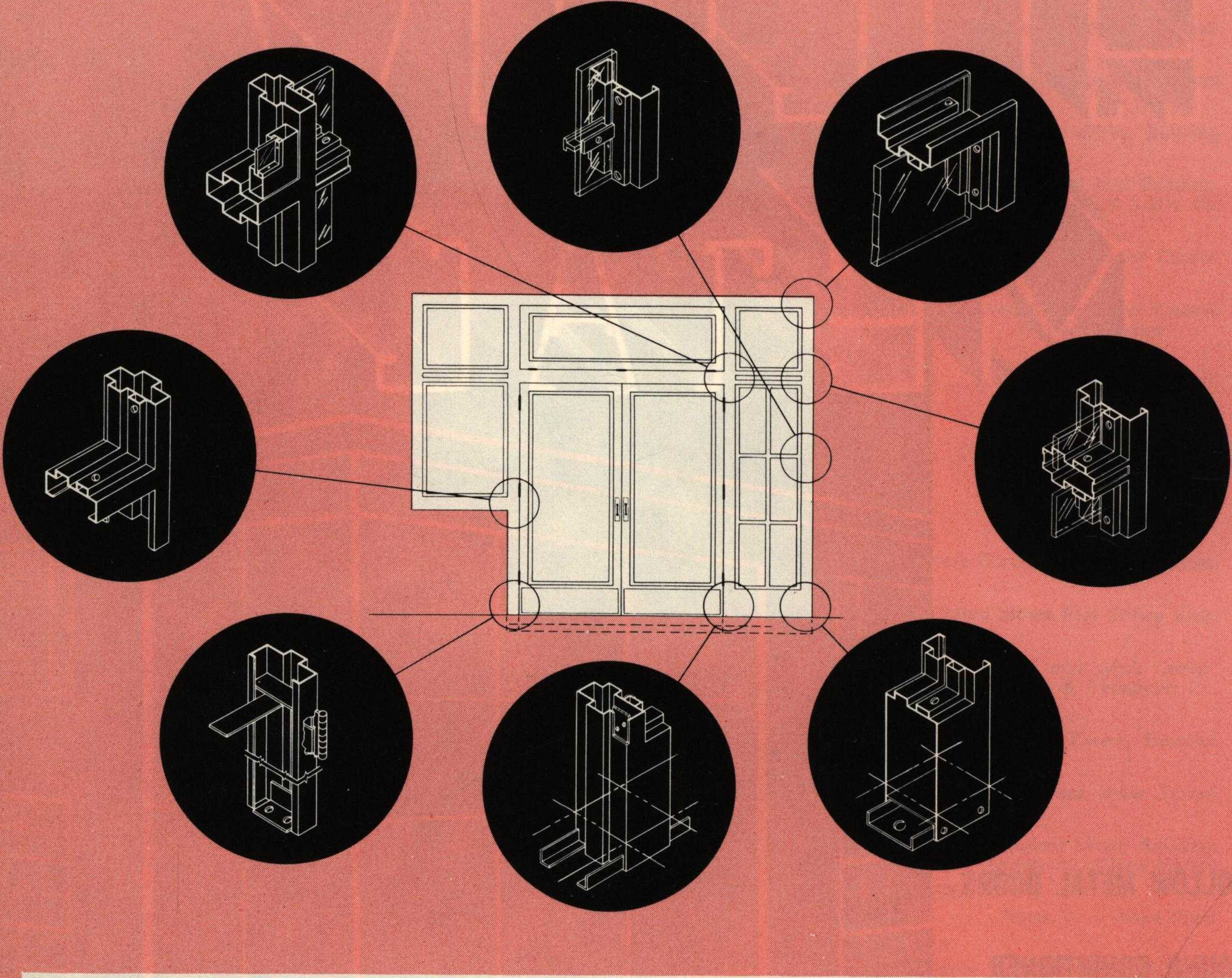
ENGINEERED METAL PRODUCTS

SINCE
1938

American Steel Products Corporation

REWE STREET • BROOKLYN 11, N.Y.

HOLLOW METAL



INTRODUCTION

We have enjoyed the privilege and opportunity of executing Hollow Metal Work, and other products which we manufacture, for numerous prominent buildings throughout a considerable part of the United States and some foreign countries. For the greater part, these accomplishments reproduce the designs and creations of nationally known Architects and Designers, and as a natural consequence, represents contracts from the leading General Contractors and Builders. Versatility in design, added to the stress placed on good workmanship, are combined with an earnest effort not only to keep pace with new developments, but also to initiate innovations in production techniques.

We maintain a complete and up-to-date machine shop for the manufacture of all types of dies, rolls and jigs required in every phase of the Hollow Metal Industry. This assures the best possible maintenance of dies and equipment and precludes delays resulting from equipment failures. It further makes possible the speediest procurement of whatever new devices may be needed.

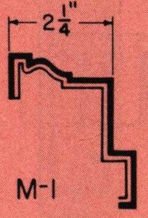
Our Engineering Department is composed of technicians fully trained in their field of work. Its services and experience are available, without obligation, to architects, owners and others interested in making use of them.

AMERICAN STEEL PRODUCTS are executed by skilled mechanics using the most modern machines and equipment, producing a mechanically perfect product of metal joinery. All materials are the finest obtainable. The highest grade of furniture steel, thoroughly pickled, double annealed and patent levelled, is used throughout. No bolts or rivets are used in the construction of American Steel Products, and only a special type of screw for removable glass mouldings appears on the finished surfaces. All joints and intersections of metal are welded and ground perfectly smooth, before the rust preventing zinc chromate prime is applied.

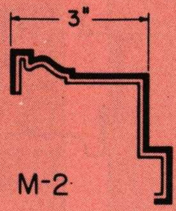
FINISHES of baked-on enamel or baked prime, are artistic, lasting and sufficiently elastic to overcome any expansion or contraction. Craftsmen, and automatically heat controlled ovens and other modern equipment, coupled with the skill and knowledge requisite to the proper mixing and blending of pigments and materials, enables us to produce any baked-on enamel finish that may be required.

We shall continue to concentrate on the quality of our products and in being of maximum service to the Architects and General Contractors in the building field—which is the basis of our steady expansion.

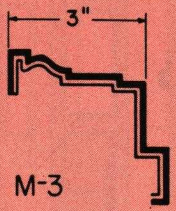
HOLLOW METAL® DOOR FRAME STANDARDS



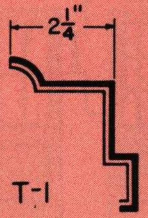
M-1



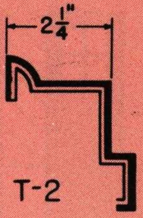
M-2



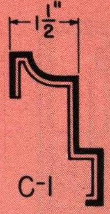
M-3



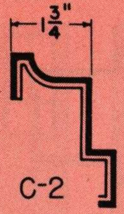
T-1



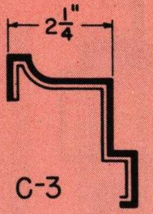
T-2



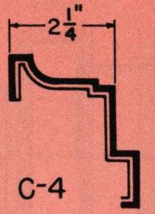
C-1



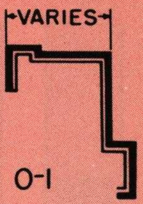
C-2



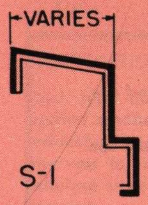
C-3



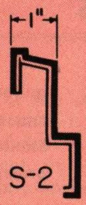
C-4



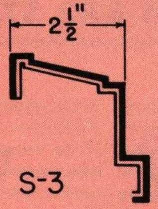
O-1



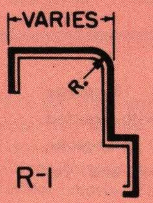
S-1



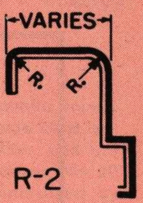
S-2



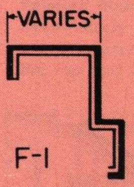
S-3



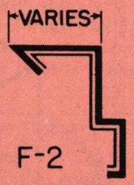
R-1



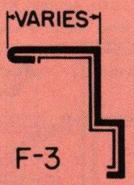
R-2



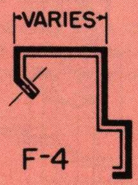
F-1



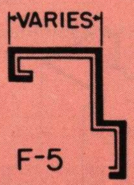
F-2



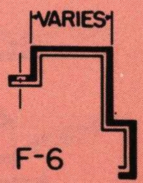
F-3



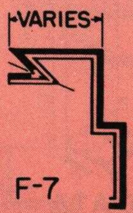
F-4



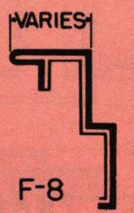
F-5



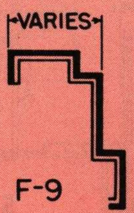
F-6



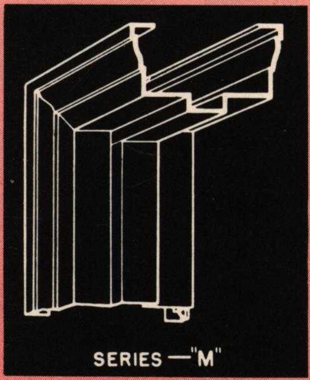
F-7

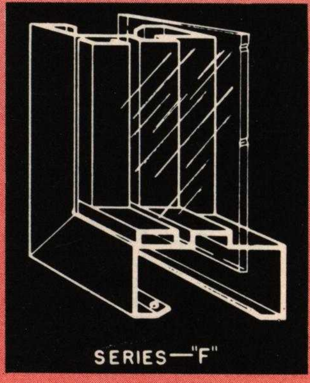


F-8



F-9


SERIES—"M"

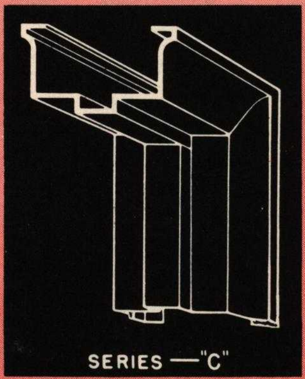

SERIES—"F"

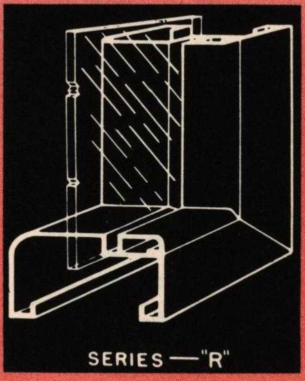
STEEL DOOR FRAMES

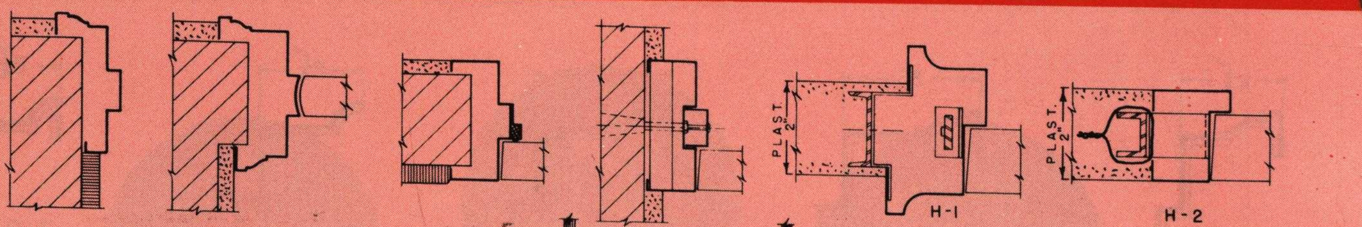
AMERICAN STANDARD COMBINATION FRAMES of both rolled and pressed construction in Nos. 18-16-14 and 12 U. S. standard gauge commercial furniture stock steel, as indicated upon pages 3 and 4, with the potential of combining various frame types, meet practically every condition of construction and also permit the minimum initial cost achieved through the use of the most modern facilities.

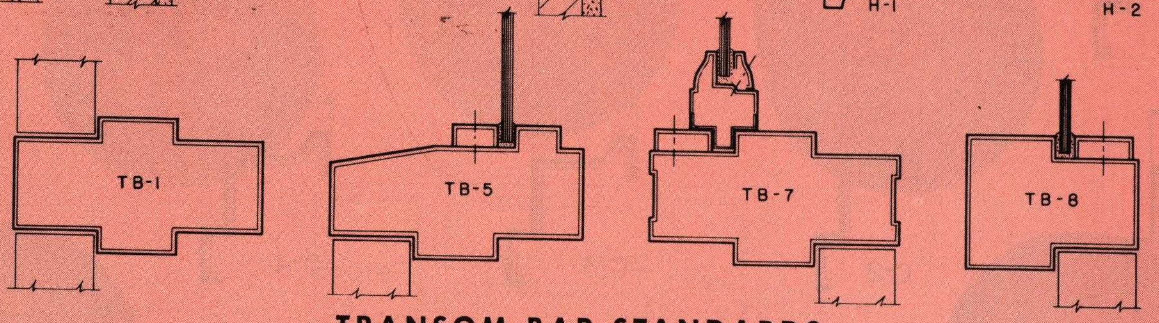
AMERICAN STANDARD COMBINATION FRAMES are of true and sharp contours, and are assembled to exacting tolerances. All frames are mitered, tenoned and continuously welded the full length of all intersections and are provided with anchors, floor clips and removable spreaders. Cutouts and drilled and tapped reinforcements, bearing proper offsets, are provided for the application of all mortised hardware. These reinforcements are of not less than No. 10 ga. steel, protected with No. 24 ga. mortar guards.

Frames are furnished with at least one prime coat of best metallic primer, and baked when specified.


SERIES—"C"

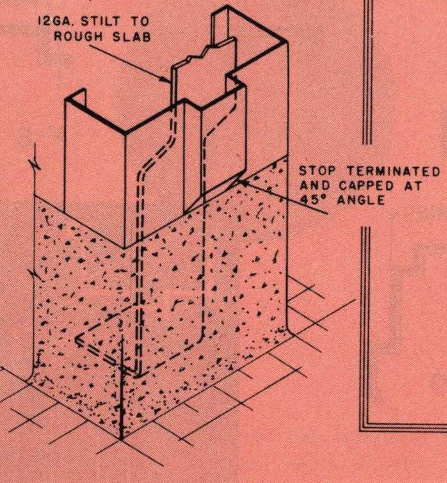

SERIES—"R"

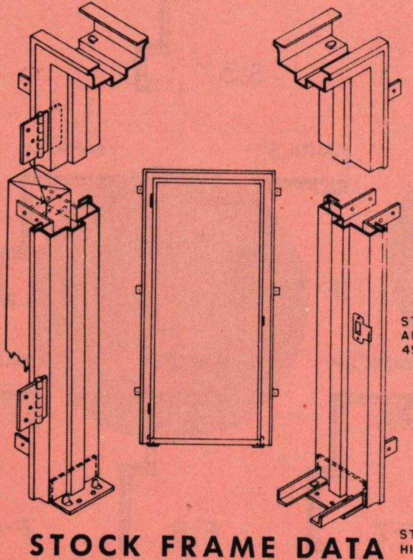




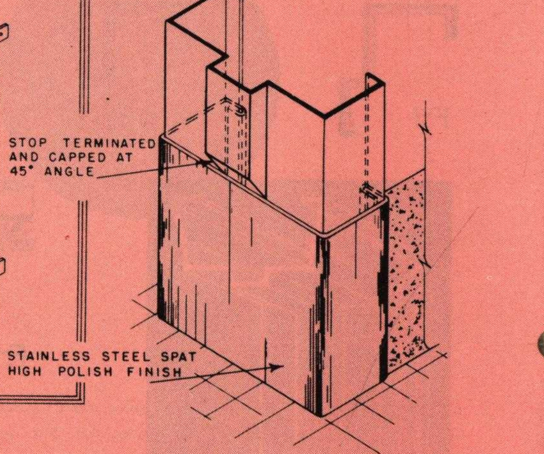
TRANSOM BAR STANDARDS

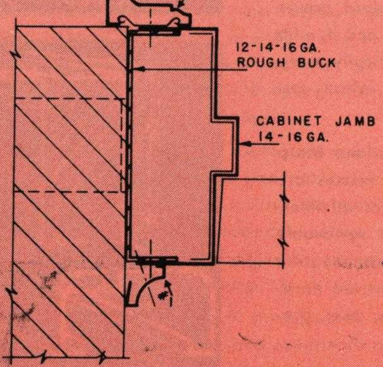
This product of No. 18 gauge steel is furnished with welded on hinges, universal strikeplate, removable spreaders and required types of anchors, and are massed produced for economy. Standard sizes are available for prompt delivery.


12GA. STILT TO ROUGH SLAB
STOP TERMINATED AND CAPPED AT 45° ANGLE

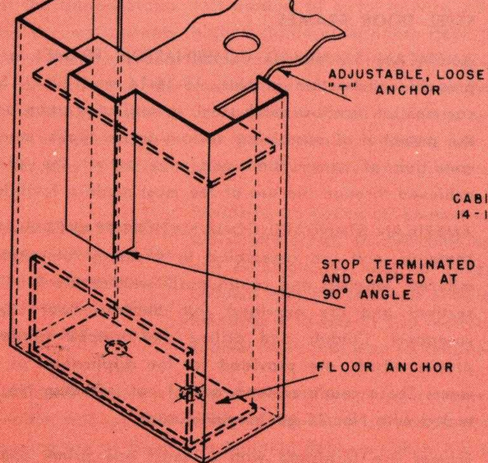


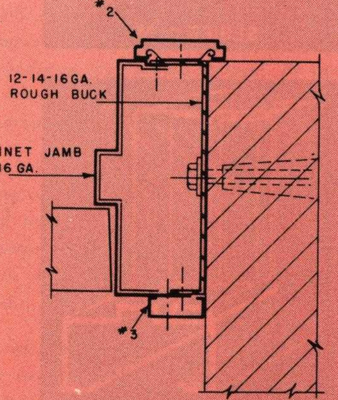
STOCK FRAME DATA


STOP TERMINATED AND CAPPED AT 45° ANGLE
STAINLESS STEEL SPAT HIGH POLISH FINISH



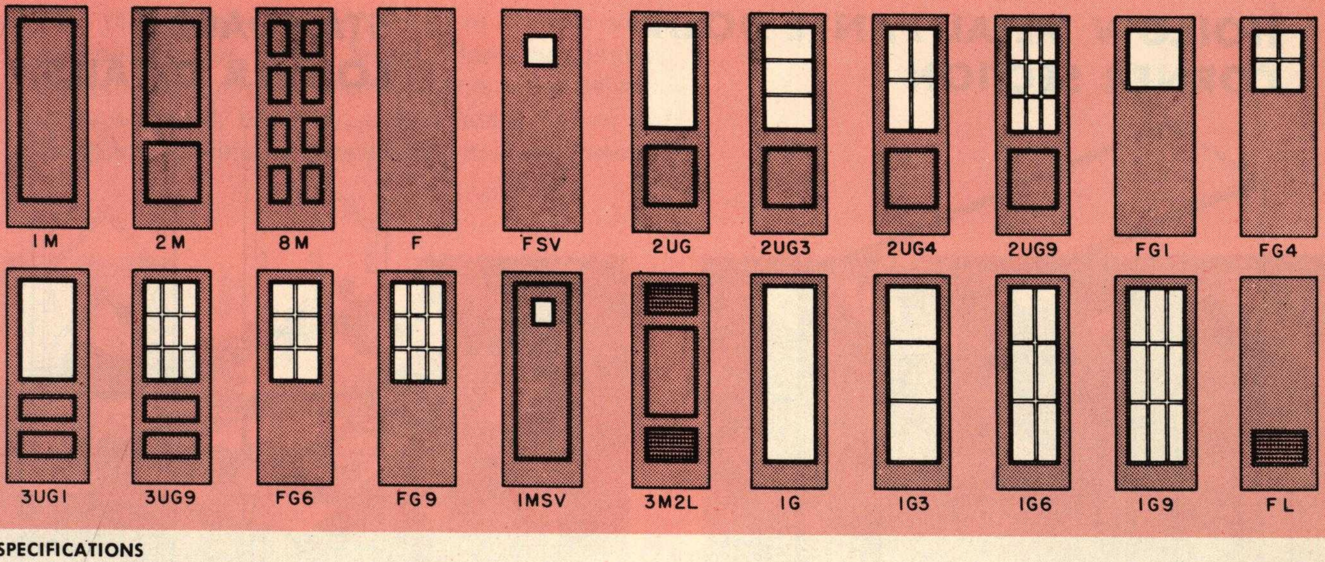
KNOCKED DOWN CABINET JAMB WITH SET-UP ROUGH BUCK.


ADJUSTABLE, LOOSE "T" ANCHOR
STOP TERMINATED AND CAPPED AT 90° ANGLE
FLOOR ANCHOR



FULLY WELDED SLIDE-IN TYPE JAMB.

HOLLOW METAL DOOR TYPES

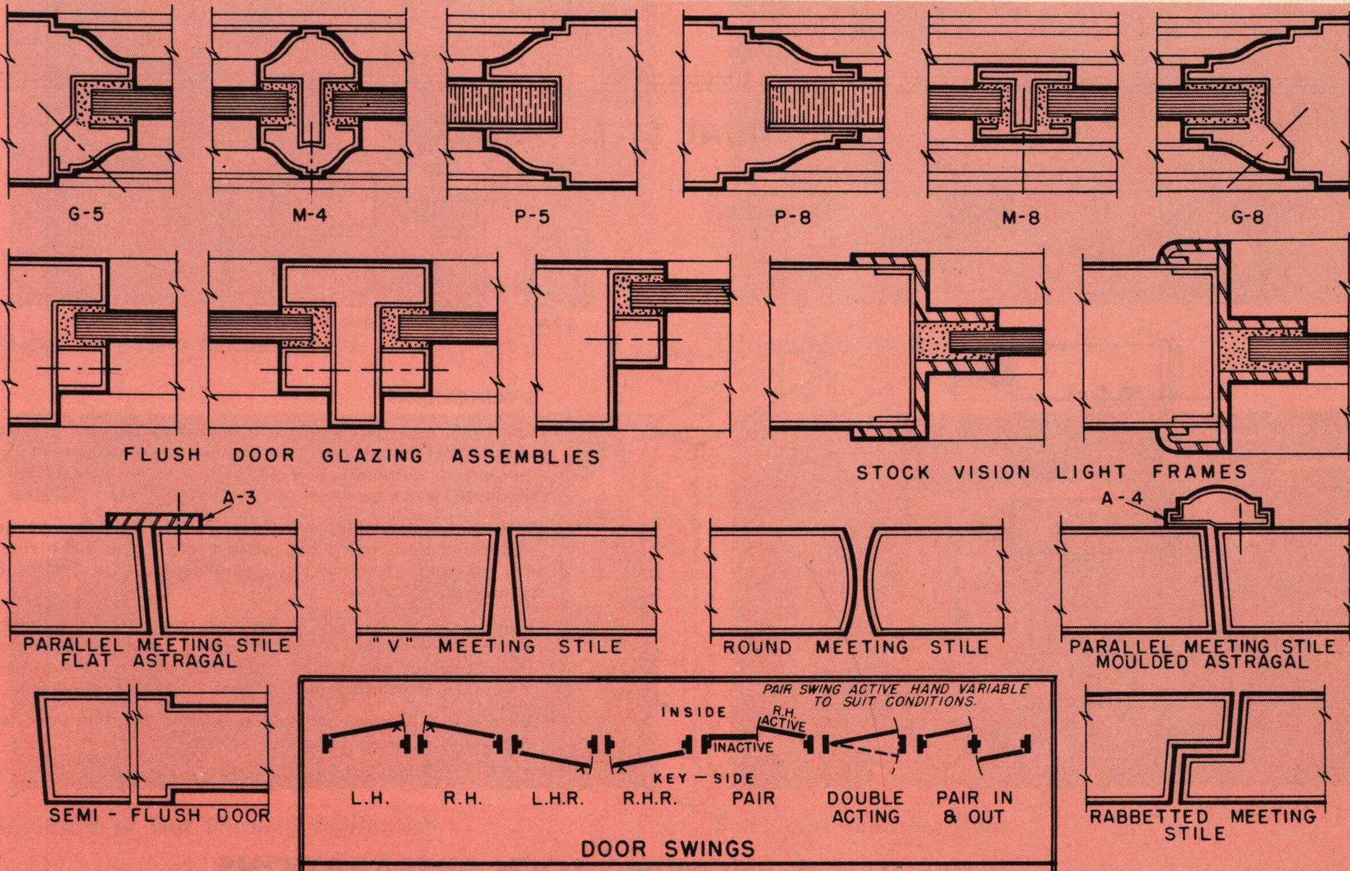


SPECIFICATIONS

Flush type doors are constructed of two sheets of No. 18 gauge steel, welded at all edges to reinforcing channels and to continuous vertical interlocking reinforcements running full height of door, and spaced at 5" intervals to insure perfect alignment, rigidity and strength. Compressed cellulose asbestos insulation is solidly packed between these interlocking channels.

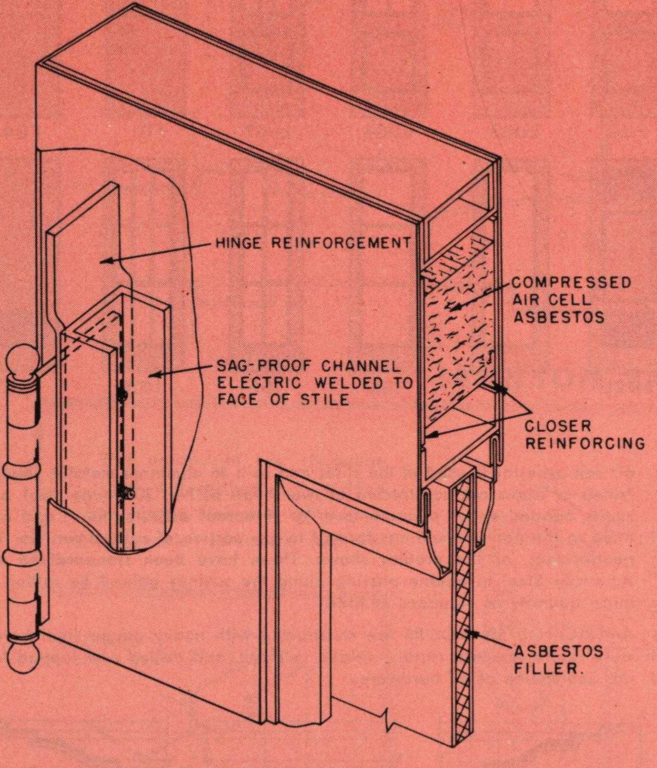
Paneled doors are formed with stiles and rails of No. 18 gauge steel, and continuously interlocked mouldings. The intersections of all stiles and rails are reinforced and welded with the continuous reinforcing channels at the top and bottom in order to form a homogenous structure. Compressed air cell asbestos is used in the stiles and rails to eliminate metallic sound. Panels of doors are constructed of two sheets of No. 20 gauge steel, securely bonded under pressure to a ⅜" fireproof asbestos filler, and are fitted to the panel mouldings formed in one section of cold drawn No. 20 gauge steel, of the profiles shown. These have been standardized by American Steel to enable passing along the savings gained by rolling a large quantity of standard shapes.

AMERICAN STEEL DOORS are constructed with heavy gauge steel hardware reinforcements, rigidly welded in place, and drilled and tapped for the application of all hardware.

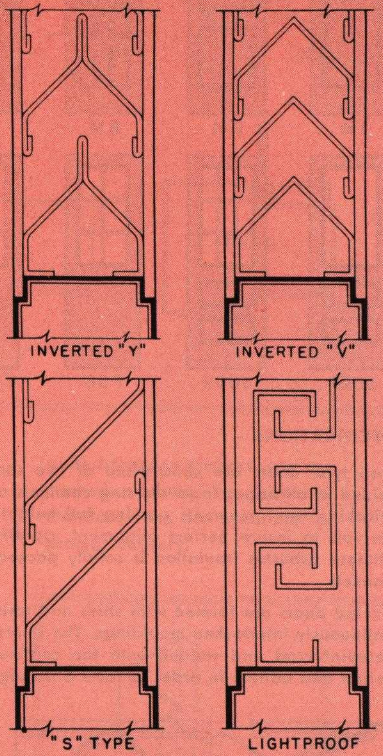


STANDARD SECTIONS

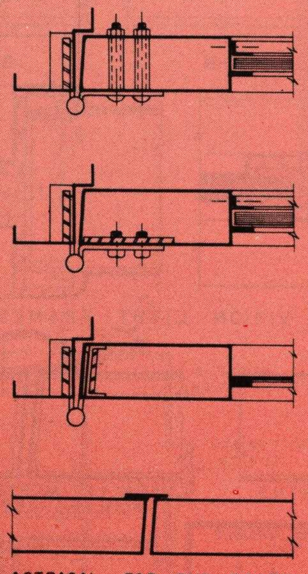
HOLLOW METAL PANEL DOOR CORNER SECTION

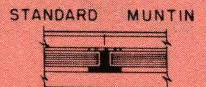

HINGE REINFORCEMENT
COMPRESSED AIR CELL ASBESTOS
SAG-PROOF CHANNEL ELECTRIC WELDED TO FACE OF STILE
CLOSER REINFORCING
ASBESTOS FILLER.

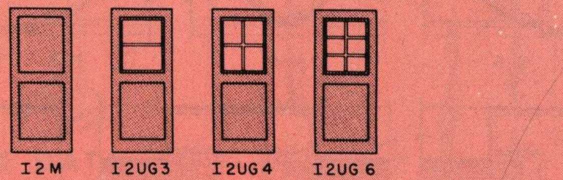
STANDARD LOUVER DETAILS

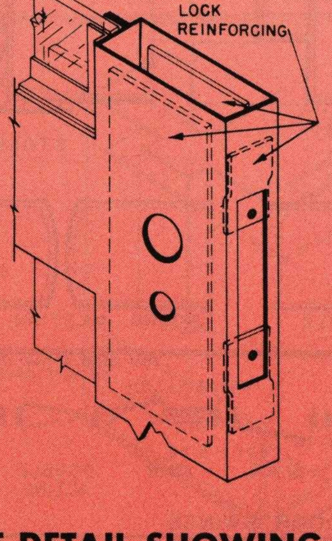


INDUSTRIAL STEEL DOORS


ASTRAGAL FOR PAIR DOORS


STANDARD MUNTIN





SPECIFICATIONS

Our intent upon this page is to familiarize those interested with the fact that we can furnish Industrial Steel Doors to suit specialized purposes, and to accommodate non-standard hardware, when specified.

Stiles and Rails are formed of No. 16 U. S. standard gauge cold rolled steel, rolled and welded into shape. Jamb stiles and top rails are 5″ x 1¾″, middle rails 6″ x 1¾″ and bottom rails 7″ x 1¾″.

Solid panels of No. 14 U. S. standard gauge steel are rigidly welded to the flanges of both stiles and rails. Glazing angles are both mitred and welded into frames which simplifies their removal for the installation of glass (furnished by others).

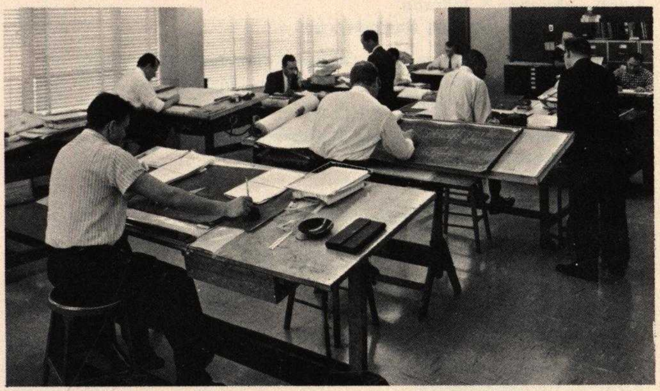
Stiles are accurately bevelled to enable the furnishing of doors with minimum clearance.

Please write for stock door data.

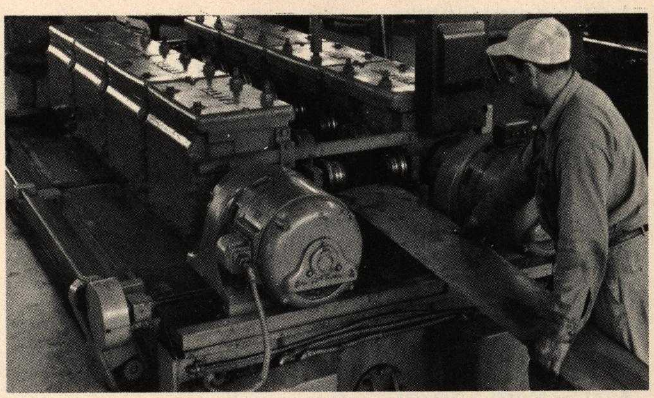
STILE DETAIL SHOWING LOCK PREPARATIONS

HOLLOW METAL® OPERATIONS

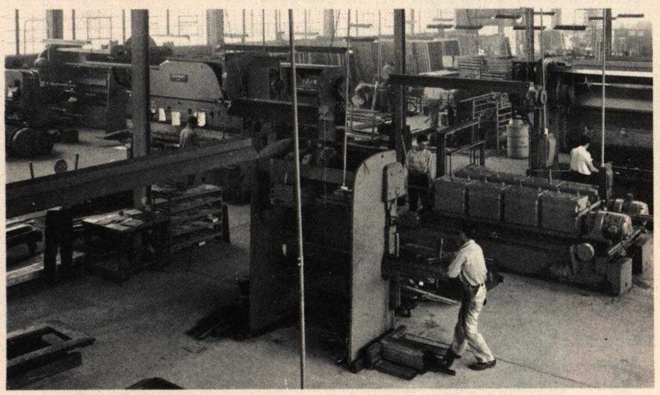
"On this page we have chosen to show a small portion of our Rewe Street Plant equipment. Certain technological improvements were deliberately withheld, however, a first hand tour of our complete facilities is encouraged and welcomed".



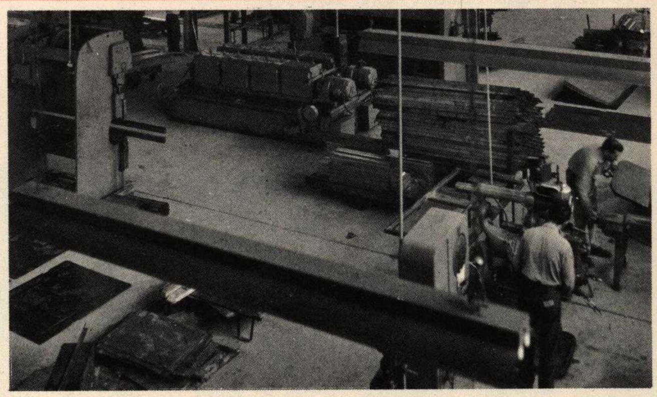
Partial View of Engineering Dept.



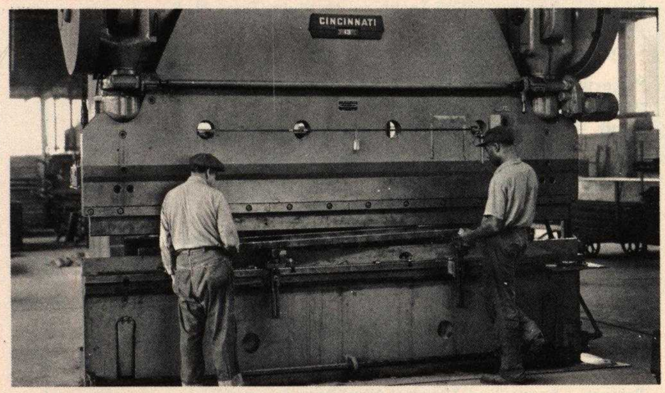
Hi Speed Rolling Mill



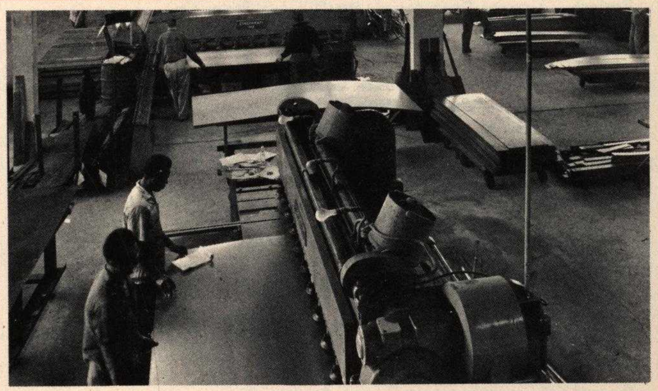
Section of Power Forming Dept.



Corner View of Machine Shop



Standard of Our Forming Equipment



Section of Shearing Dept.

American Steel Products Corporation

HOLLOW METAL® INSTALLATIONS

Project— Library, Admin. & Clrm. Bldg.—Hunter College, Bronx, N. Y.
Archt. — Marcel Breuer
Contr. — Leon D. De Matteis & Sons

Project— Linton High School, Schenectady, N. Y.
Archt. — Perkins & Will
Contr. — Christensen & Nielsen

Project— Lower Merion Sr. High School, Lower Merion Twp., Pa.
Archt. — Vincent G. Kling
Contr. — Joseph R. Farrell, Inc.

Project— Upper Merion High School, Montgomery Co., Pa.
Archt. — Joseph Wigmore, Robert A. C. Gilfillan
Contr. — B. Bornstein & Son

Project— Maximum Security Bldg., St. Elizabeths Hosp., Washington, D. C.
Archt. — General Services Administration
Contr. — Wm. E. Cramer Company

Project— 2 Patients Bldgs., Wernersville, Pa.
Archt. — General State Authority
Contr. — Sordoni Construction Co.

Project— Charlotte Memorial Hospital, Charlotte, N. C.
Archt. — A. G. Odell & Associates
Contr. — Little Construction Company, Inc.

Project— Student Activities Bldg., Charlottesville, Va.
Archt. — Eggers & Higgins
Contr. — Doyle & Russell

Project— Oak Creek Power Plant, Oak Creek, Wisc.
Archt. — Western Electric Power Company
Contr. — Western Electric Power Company

Project— Low Rent Housing Project, Memphis, Tenn.
Archt. — Eason, Anthony, McKinnie & Cox, Inc.
Contr. — J. A. Jones Construction Company

Project— Missile Master Facilities, Pittsburgh, Pa.
Archt. — Corps of Engineers
Contr. — Malan Construction Company

Project— Island Trees High School, Island Trees, L. I., N. Y.
Archt. — F. P. Wiedersum
Contr. — Jonwal Construction Company, Inc.

Project— Research Bldg.—Womens Medical College, Philadelphia, Pa.
Archt. — Schmidt, Garden & Erikson
Contr. — Joseph R. Farrell, Inc.

Project— War Memorial Coliseum, Greensboro, N. C.
Archt. — McMinn, Norfleet & Wicker
Contr. — Barger Construction Company, Inc.

Project— Medical Science Bldg.—Dartmouth College, Hanover, N. H.
Archt. — Shepley Bulfinch, Richardson & Abbott
Contr. — Wexler Construction Company, Inc.

Project— Airmens Dormitories, MacDill A.F. Base, Fla.
Archt. — Corps of Engineers
Contr. — Southern Construction Company, Inc.

Project— Peoples Life Insurance Co. Bldg., Washington, D. C.
Archt. — Mills Petticord & Mills
Contr. — Chas. H. Tompkins Company

Project— Readiness Crew Building, Glasgow A.F. Base, Mont.
Archt. — Corps of Engineers
Contr. — Fred R. Comb Company, Inc.

Project— Residence Halls—Univ. of Delaware, Newark, Del.
Archt. — McKim Mead & White
Contr. — The Thompson Construction Corp.

Project— Ernest Harmon A.F. Base, Stephenville, Newfoundville
Archt. — Frank Grad & Sons
Contr. — J. A. Jones Construction Company

Project— Tussey Mountain School, Saxton, Pa.
Archt. — Hunter, Campbell & Rea
Contr. — R. S. Mowery & Sons, Inc.

Project— Assembly Hall—Univ. of Ill., Urbana, Ill.
Archt. — Harrison & Abramovitz
Contr. — Felmley-Dickerson Company

Project— Zeckendorf Campus—L.I.U., Brooklyn, N. Y.
Archt. — S. J. Kessler
Contr. — Leon D. De Matteis & Sons, Inc.

Project— Elementary School, Plattsburg A.F. Base, N. Y.
Archt. — Knappe & Johnson
Contr. — Paul M. Sterling Company, Inc.

Project— Winchell Avenue Elem. School, Kalamazoo, Mich.
Archt. — Stapert-Pratt-Bulthuis-Spau-Grothers, Inc.
Contr. — Miller-Davis Company

Project— Student Union Building, Big Springs, Tex.
Archt. — Puckett & French
Contr. — A. P. Kasch & Sons

Project— Central Catholic High School, Lafayette, Ind.
Archt. — Walter Scholer & Associates
Contr. — F. A. Wilhelm Construction Company

Project— Woodrow Wilson Houses, New York, N. Y.
Archt. — Pomerance & Breines
Contr. — Leon D. De Matteis & Sons, Inc.

Project— Oxen Hill Sr. High School, Prince Georges Co., Md.
Archt. — Harder & Dressel
Contr. — John Tester & Son, Inc.

Project— North Colonie Jr. Sr. High School, Colonie, N. Y.
Archt. — Henry L. Blatner
Contr. — Sano Rubin Construction Company

Project— Windham Memorial Hospital, Willimantic, Conn.
Archt. — York & Sawyer
Contr. — The Wadhams & May Company

Project— St. Lukes Hospital, Bethlehem, Pa.
Archt. — Crow, Lewis & Wick
Contr. — H. E. Stoudt & Sons

Project— Greenville General Hospital, Greenville, S. C.
Archt. — York & Sawyer—Kiff, Colean, Voss & Souder
Contr. — Thompson & Street Company

Project— Gates Chili Jr. Sr. High School, Gates, N. Y.
Archt. — Benedict Ade
Contr. — Le Chase Construction Corp.

Project— Readiness Crew Bldg., Ellsworth A.F. Base, S. D.
Archt. — Corps of Engineers
Contr. — M. A. Garland Construction, Inc.

Project— SAC Composite Bldgs., Robins A.F. Base, Ga.
Archt. — Corps of Engineers
Contr. — Taylor Construction Company

Project— Hudson Valley Technical Institute, Troy, N. Y.
Archt. — Robert A. Green
Contr. — Frank E. Antolick & Sons, Inc.

Project— Bomarc Facilities, Duluth, Minn.
Archt. — Corps of Engineers
Contr. — Blount Bros. Construction Company

Project— St. Johns College High School, Washington, D. C.
Archt. — Walton & Madden
Contr. — John Tester & Son, Inc.

Project— Mens & Womens Dormitories—Rider College, Trenton, N. J.
Archt. — Alfred Clauss
Contr. — Belli & Company

Project— John Seiver Steam Plant, McCloud, Tenn.
Archt. — Tennessee Valley Authority
Contr. — Tennessee Valley Authority

Project— Bermudian Theater, Hamilton, Bermuda
Archt. — Urbahn, Brayton & Burrows
Contr. — Hutchings & Milani, Ltd.

SINCE 1938 American Steel Products Corporation
REWE STREET · BROOKLYN 11, N.Y.

Digitized by:

INTERNATIONAL

ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

Carol J. Dyson, AIA